1890-0033

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Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Claims 1-14 (canceled)

15. (previously presented) A MOSFET circuit comprising:

- a first MOS transistor having a first number of cells,
- a second MOS transistor having a second number of cells, the second number being less than the first number and the second MOS transistor being provided with a source-drain path in parallel with a source-drain path of the first MOS transistor between a voltage source and reference potential, and
- a Zener diode coupled between a gate of the first MOS transistor and a gate of the second MOS transistor.

16-17 (cancelled)

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- 18. (currently amended) The MOSFET circuit as claimed in claim [[17]]19, further comprising a second resistor connected in series with a parallel circuit formed by the Zener diodeconstant voltage element and the first resistor.
- 19. (currently amended) The MOSFET circuit as claimed in claim [[16]]15, further comprising a first resistor connected in parallel with the Zener diode.
- 20. (previously presented) The MOSFET circuit as claimed in claim 19, wherein the Zener diode and the first resistor are integrated with one another.
- 21. (previously presented) The MOSFET circuit as claimed in claim 20, wherein the Zener diode and the first resistor are formed by a highly doped polycrystalline layer of a first conduction type and a polycrystalline layer of a second conduction type that is in contact with the highly doped polycrystalline layer.
- 22. (previously presented) The MOSFET circuit as claimed in claim 21, wherein the polycrystalline layer of the second conduction type is located on a polysilicon gate plane of the MOSFET circuit.
- 23. (previously presented) The MOSFET circuit as claimed in claim 21, wherein a doping concentration of the highly doped layer is less than 10¹⁹ charge carriers cm⁻³.

- 24. (previously presented) A MOSFET circuit comprising:
- a first MOS transistor having a first number of cells, the first MOS transistor integrated into a semiconductor body;
- a second MOS transistor having a second number of cells, the second MOS transistor
 integrated into the semiconductor body, the second number being less than the first number
 and the second MOS transistor being provided with a source-drain path in parallel with a
 source-drain path of the first MOS transistor between a voltage source and reference
 potential, and
- a Zener diode coupled between a gate of the first MOS transistor and a gate of the second MOS transistor.
- 25. (previously presented) The MOSFET circuit as claimed in claim 24, wherein the first number of cells is at least twice the second number of cells.
- 26. (previously presented) The MOSFET circuit as claimed in claim 25, wherein the first number of cells is at least ten times the second number of cells.
- 27. (previously presented) The MOSFET circuit as claimed in claim 25, wherein the first number of cells is approximately 1000.

- 28. (previously presented) The MOSFET circuit as claimed in claim 24, wherein the first MOS transistor and the second MOS transistor comprise CoolMOS transistors.
- 29. (previously presented) The MOSFET circuit as claimed in claim 24, wherein the semiconductor body is of a second conduction type and charge compensation regions of a first conduction type are incorporated into the semiconductor body.
- 30. (previously presented) An integrated MOSFET circuit comprising:
- a first MOS transistor having a first number of cells, said transistor being integrated in a semiconductor body,
- a second MOS transistor having a second number of cells, said transistor being integrated in the semiconductor body, the second number being less than the first number and the second MOS transistor being provided with a source-drain path in parallel with a source-drain path of the first MOS transistor between a voltage source and a reference potential, and
- a Zener diode connected between a gate of the first MOS transistor and a gate of the second MOS transistor, said Zener diode comprising a polycrystalline layer on a polycrystalline gate plane of the first and second MOS transistors and a zone provided in the polycrystalline layer and having an opposite conduction type to a conduction type of the polycrystalline layer.

- 31. (previously presented) The integrated MOSFET circuit as claimed in claim 30, further comprising a resistor connected in parallel with the Zener diode, the resistor formed by the pn junction between the polycrystalline layer and the zone.
- 32. (previously presented) The integrated MOSFET circuit as claimed in claim 31, wherein the doping concentration of the zone is less than 10¹⁹ charge carriers cm⁻³.
- 33. (previously presented) The MOSFET circuit as claimed in claim 30, wherein the first number of cells is at least twice the second number of cells.
- 34. (previously presented) The MOSFET circuit as claimed in claim 30, wherein the first number of cells is at least ten times the second number of cells.
- 35. (new) The MOSFET circuit as claimed in claim 15, wherein the Zener diode is further coupled between the gate of the second MOS transistor and a control input of the MOSFET circuit, and wherein the Zener diode is forward biased from the control input to the gate of the second MOS transistor.